

Rugged Electronics for Next-Generation Land Vehicles

Delivering clarity, interoperability, and real-time intelligence to modernize legacy fleets and empower crews on today's battlefield.



Powering the Modern Battlefield

Today's battlefield calls for more than durability. It demands advanced electronics that transform legacy land vehicles into next-generation, combat-ready platforms. With high-resolution displays and cutting-edge digital interfaces, vehicle systems now serve as more than just eyes on the battlefield, they deliver clarity, interoperability, and real-time intelligence that empowers crews to act with speed and confidence. As modernization accelerates and unmanned threats increase, the demand for rugged electronics that are innovative, resilient, and intuitive has never been greater.

Rugged Solutions for Land Vehicles

From awareness to action, our rugged land vehicle electronics deliver tailored solutions for the most demanding program requirements.

AWARENESS:

Advanced situational awareness on the battlefield



The MSM212VR was customized as part of a winning Assault Amphibious Vehicle model for the United States Marines.



MSM2 MIL-SPEC Monitor Series II

- MIL-STDs 810, 461 and 1275
- Touch screen and NVIS options
- Video inputs include DVI-D, VGA, Composite Video (NTSC/PAL), and DisplayPort



DVE-10 Display Control Modules

- 800 x 600 SVGA Resolution
- Analog Video Inputs
- Sensor Module Controls
- MIL-PRF-49256D and ICD A332586 compliant

ACTION:

Transforming awareness into execution by actionalizing crew commands through integration with turret systems, kinetic weaponry, and more



The FHDRM series is currently being fielded as the control and command station in Counter-UAS (C-UAS) applications



FHDRM

Full High Definition Rugged Monitor

- 1920 x 1080 full high definition resolution
- Digital and analog video inputs, including HD-SDI, HDMI, DVI/VGA, RS170 (NTSC/PAL)
- Ultra-thin form factor
- Sizes ranging from 7"-24"
- Programmable bezel keys
- Unique options such as CANBus, GPIO lines, and fully customizable RS422 command structures
- MIL-STD design

Overcoming Complexities in System Design

As a design-build manufacturer with over 30 years of experience, DSE knows off-the-shelf solutions rarely meet the complex demands of land vehicle programs. Real value comes through collaboration—partnering to solve challenges such as centralizing data sources, reducing cabling complexity through video conversion, and maximizing glass size within strict space constraints. By leveraging our proven product catalogue and modular design approach, we deliver rugged systems that overcome these obstacles and equip vehicles with reliable, next-generation electronics.



Ready to learn more about land vehicle solutions?

Contact our team: (480) 515-1110,
info@digitalsys.com



A Proven Partner in Land Vehicle Technologies

DSE is proud to support leading ground vehicle programs:

M1A2 Abrams
Amphibious Combat Vehicle (ACV)
Mobile Strike Force Vehicle (MSFV)
Stryker Fighting Vehicle
C-UAS Directed Energy Stryker
Medium Mine Protected Vehicle (MMPV)
M88 Recovery Vehicle
THAAD
Mobile-Low, Slow, Small Unmanned Aircraft Integrated Defeat System (M-LIDS)
Mine Resistant Ambush Protected All-Terrain Vehicle (M-ATV)